

## Transmembrane protease serine 4 Protein, Mouse (His-SUMO)

<b>Cat. No.:</b>	HY-P71604
<b>Synonyms:</b>	Tmprss4; Cap2; Transmembrane protease serine 4; EC 3.4.21.-; Channel-activating protease 2; mCAP2
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli
<b>Accession:</b>	Q8VCA5 (52K-435M)
<b>Gene ID:</b>	214523
<b>Molecular Weight:</b>	Approximately 57.8 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> KVILDKYYFI   CGSPLTFIQR   GQLCDGHLDC   ASGEDEEHCV KDFPEKPGVA   VRLSKDRSTL   QVLDAATGTW   ASVCFDNFTE ALAKTACRQM   GYDSQP AFRA   VEIRPDQNL P   VAQVTGNSQE LQVQNGSRSC   LSGSLVSLRC   LDCGKSLKTP   RVVGGVEAPV DSWPWQVSIQ   YNKQHVC GGS   ILDPHWILTA   AHC FRKYLDV SSWKVRAGSN   ILGNSPSLPV   AKIFIAEPNP   LYPKEKDIAL VKLQMPLTFS   GSVRPICLPF   SDEVLPATP    VWVIGWG FTE ENGGKMSDML   LQASVQVIDS   TRCNAEDAYE   GEVTAEM LCA GTPQG GK DTC   QGDSGGPLMY   HSDKWQV VGI   VSWG HGC GGP STPGVYTKVT   AYLNWIYNVR   KSEM </pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The Transmembrane Protease Serine 4 (TMPRSS4) Protein, a plasma membrane-anchored serine protease, plays a pivotal
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role in the activation of various molecular pathways. Through its proteolytic activity, TMPRSS4 directly induces the processing of pro-uPA/PLAU, converting it into its active form. Additionally, TMPRSS4 exhibits the capability to activate epithelial sodium channels (ENaC). This dual functionality underscores the significance of TMPRSS4 in regulating crucial cellular processes, emphasizing its potential impact on protease-mediated cascades and ion channel activation in diverse physiological contexts.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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